

End Term Assessment– Jan /Feb 2022

UG :Semester –V

(B.Tech. CSE with specialization in Development and Operations – 2019 Batch)

Subject Code: CDV3007

Subject Name: Continuous Integration & Continuous Deployment

Duration: 3 hours (including time for uploading)

Max. Marks: 50

Instructions

- Write name and registration number, page number, on all the pages, convert into one PDF, tag it with your registration number_Name_subjectcode_subject title
- The Assessment consists of 2 sections
 - Part A contains 10 questions of 2 marks each and all questions are compulsory.
 - Part B consists of 4 questions of 10 marks each, 3 questions out of 4 to be attempted
- Hand written responses to be submitted/uploaded as scanned pages of answer sheets (max. 5 pages) within the mentioned duration. 6th page and onwards won't be evaluated

PART – A

2 * 10 = 20 Marks (Each answer- Word Limit- 50 Words)

1. Draw a CI workflow.
2. List out the steps to be followed for achieving CD.
3. Justify the need of continuous deployment process.
4. Benefits of continuous deployment.
5. What is Zero downtime releases?
6. What is continuous delivery?
7. Why code coverage analysis is required?
8. Define automated unit testing.
9. How the provisioning and deployment to the test environment.
10. Define functional tests with example.

PART – B

10 * 3 = 30 Mark (Each answer- Word limit- 250 words)

1. Explain how Continuous Integration benefits distributed teams.
2. Discuss Case study of HP Laserjet. Discuss the transformation benefits of HP Laserjet to the CI/CD model.
- 3 Explain how to create a pull request from their respective forks.
4. Explain the static code analysis and different techniques to analyze Code.